

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

MPP

Date: 08.09.25	Job No.: 00256	ADR Yes/No: Y	ADR Date: 08.08.14	ECN #: 08- 541
Product No.: D350-689		Created By: [Signature]	Approved By: [Signature]	
Product Name: Dual High Back Seat		Checked By: [Signature]	General Manager Approval:	

Distribution	Reqd	Resp	Initial / Date
Production Manager	Y	LL	
Production Engineering Coord	Y	EC/DD	
Production Document Control	Y	JLD	
Customer Technical Support	Y	DS	

Distribution	Reqd	Resp	Initial / Date
DQA / QA Coord			
QC Coordinator			
Marketing	Y	SW	
Customer Order Processing			

Reason for Change:
Raduis added for clearance and material note changed

Documents Affected:
Release DSI 9419 Rev. A
Release D3808, D3809, D3810, D3811 Rev. A

PARTS MUST COMPLY

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PREVIOUS PARTS SATISFACTORY

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#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3					

#	Engineering Actions	Reqd	Resp	Notes	Complete
4	Required Documents/Drawings Under Review	N			
5	Update Product Compatability Matrix	N			
6	Create Eurocopter Form (FEE)	N			
7	Notify TC / FAA of Change	N			

#	Document Control Actions	Reqd	Resp	Notes	Complete
8	Move Electronic Files	Y	KJ		
9	Update Blue/Pink/DSI Folder and Electronic Files	Y	KJ		08.09.25 [Signature]
10	Update Controlled PDF Files	Y	KJ		08.09.25 [Signature]
11	Update Master Document List (MDL)	N			
12	Update Document Record (DR) Rev. G	Y	KJ		08.09.25 [Signature]
13	Update Product Development Summary	N			
14	Update QSI 021 and/or STC Approval List	N			
15	Update Parts / STC Database	Y	KJ	Add DSI 9419-011, D350-689-021/-023/-043, D3808-D3811	08.09.25 [Signature]
16	Update / Verify ARC Database	Y	KJ		08.09.25 [Signature]
17	Create / Update Change Record Form	Y	KJ	DSI 9419-011, D350-689-021/-023/-043 AT CHG001	08.09.25 [Signature]
18	Create / Update PPP's	Y	KJ	DSI 9419-011, D350-689-021/-023/-043 AT CHG001	08.09.25 [Signature]
19	Update Document Control Database / Laminated Dwgs	N			
20	Update Grey Project Binder	Y	KJ		08.09.25 [Signature]
21	Update D-Part/M-Drawing/DSI/DEO Master Binders	Y	KJ		08.09.25 [Signature]
22					
23					

Description / Action:

D 350 - 689 - 04

39454

43544

JLD n/A
09.05.14

ECN Verified & Complete:

Date:

AMENDMENT DESIGN REVIEW (ADR)

Part/Installation No.: D350-689 Rev: A Design Review No.: 1 Date: 08.08.14

Project Number: 00256 Project Description/Title: DSI 9419 Rev. A

Eng. Project Manager: Roberto Fuentes

Persons Present	Title	Initial
Mike Petsche	Design Manager	M/P
Roberto Fuentes	Engineering Project Manager	R/F
David Shepherd	Chief Engineer (DE #02)	D/S
Jean-Luc Menard	Manufacturing Manager	J/L
	Quality Manager	

Comments

"Liberty Helicopters attempted to install the D350-689-011 Dual High Back Seat Kit into an aircraft equipped with Energy Attenuating Seats. The D350-689-011 Kit is not compatible because of the extruded rails and the "T" shape of the underfloor structure. Therefore, DSI 9419 was created to add the D350-689-021/-023/-043 kits. These kits allow the customer to leave the inboard seat rail at LBL 8.98 and install a custom outboard seat track (D3811-041) at LBL 27.33. The D3808-041 rails replace the existing locking studs on the seat assembly and pick up on floor mounted seat tracks at LBL 8.98 and 27.33. Therefore, the customer is able to switch back and forth between his existing single place Energy Attenuating Seat and his Dual High Back Seat. Liberty Helicopters was sent a DSI 9419-011 kit and successfully installed the Dual High Back Seat Assembly in their aircraft. See attached pictures.

Also attached is an analysis that was completed to determine the C of G of passengers in the Dual High Back Seat Assembly when installed per DSI 9419 as well as analysis to structurally substantiate the new attachment brackets. This analysis uses the approved loads determined per ACS Report B72910 Rev. A."

SEE SR-D350-689-2

Key Tasks (Check or N/A)	Check	Responsible	Completion Date
Review Outstanding TSR/NCR/CAR/PAR	N/A		
Fill out Criteria/Constraints Form - Inputs	N/A		
Fill out Project Evaluation Form	N/A		
D-Part creation/revision	Y	KJ	
Get Manufacturing Input	Y	JL	
First Article Inspection	Y	JL	
Fit and Function Test	Y	Liberty	
Structural Test	N/A		
Reports (Compliance, Loads, Stress, Conformity, DSI)	Y	RF/DS	
Check Drawings against all QSIs	Y	DS	
Review Criteria/Constraints Form	N/A		
Revision to existing approval	N/A		
Close Amendment Project	Y	RF	

Conclusion:

DSI 9419-011 Kit was sent to customer and verify the installation of Dual Back Seat to be compatible with Energy Seat Rail. The installation was successfully, see attached pictures.

